

Work Order ID 162722

Friday, June 09, 2017 11:43:05 AM

162722

Page 1

Item ID: 647.8905 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: AW139 Cable Cutter System, Removable Provisions - Long
 Start Date: 6/19/2017 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 6/21/2017 Req'd Qty: 1.00 *1* Customer:
 Reference: SCHEDULED/C

Approvals: Process Plan: [Signature] Date: JUN 09 2017 Tooling: Date: Run Start *NR1*
 QC: [Signature] Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr	
647.8900	A	JUN 14 2017

100	Document Control	0.00	DAS 6 9-89
100	DOCUMENT CONTROL		
DC	Memo	0.00	DAS 27 9-89
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.8905		

110	Pick Kit	0.00	
110			
Packaging	Memo	0.00	DAS 6 9-89
Packaging			DAS 28 9-89 JUN 14 2017

120	QC4- 100% Inspect kits for completeness	0.00	
120			
QC	Memo	0.03	DAS 27 9-89
Quality Control			

JUN 15 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

Work Order ID 162722

Friday, June 09, 2017 11:43:05 AM

162722

Page 2

Item ID: 647.8905 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: AW139 Cable Cutter System, Removable Provisions - Long
Start Date: 6/19/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 6/21/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference: SCHEDULED/C

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging	Identify as per dwg & Stock Location: _____ Packaging Memo Identify and pack for shipping as per PPP 647.8905 Location: fs 101	0.00 0.00							
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.10							

DAS 27 9-89
JUN 16 2017

DAS 21 9-89
JUN 16 2017

DAS 21 9-89
JUN 16 2017

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

Picklist Print

Friday, June 09, 2017 11:43:04 AM

Page 1

Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.11.01 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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647.9201		Manufactured	No			110	Each	37.0000	1	1			
----------	--	--------------	----	--	--	-----	------	---------	---	---	--	--	--

647 9201

Upper Cutter Assembly

**

JUN 14 2017

Location

Loc Qty

Loc Code

CCK057

17

128175

5

128325

5

92903

7

CCK058

20

121135

20

647.9203		Manufactured	No			110	Each	0.0000	1	1			
----------	--	--------------	----	--	--	-----	------	--------	---	---	--	--	--

647 9203

Lower Cutter Assembly, Long

**

162723

647.9401		Manufactured	No			110	Each	4.0000	1	1			
----------	--	--------------	----	--	--	-----	------	--------	---	---	--	--	--

647 9401

Deflector Assembly

**

JUN 14 2017

Location

Loc Qty

Loc Code

cck024

4

m129311

4

647.9501		Manufactured	No			110	Each	22.0000	2	2			
----------	--	--------------	----	--	--	-----	------	---------	---	---	--	--	--

647 9501

Quick Release Pin Assembly

**

JUN 14 2017

Location

Loc Qty

Loc Code

CCK119

22

117306

22

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		☐ OTHER :					

Picklist Print

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Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

647.9801

Manufactured No

110

Each

3.0000

1

1

**

647 9801

Mounting Tee Assembly

DAS
6
9-89

DAS
28
9-89

JUN 14 2017

Location

Loc Qty

Loc Code

CCK061

3

m129311

3

647.9012

Manufactured No

110

Each

64.0000

1

1

**

647 9012

Fwd Clip

DAS
6
9-89

DAS
28
9-89

JUN 14 2017

Location

Loc Qty

Loc Code

cck117

18

92980

14

m129311

4

cck122A

46

93255

46

647.9013

Manufactured No

110

Each

58.0000

1

1

**

647 9013

Fwd Clip

DAS
6
9-89

DAS
28
9-89

JUN 14 2017

Location

Loc Qty

Loc Code

cck117

5

125670

2

m129311

3

cck122A

53

92981

16

93167

37

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: 31/03/2020		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

Picklist Print

Friday, June 09, 2017 11:43:04 AM

Page 3

Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

647.9014 Manufactured No

110 Each 118.0000 2 2

647 9014

Strut Bracket

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck117

68

93290

68

cck122A

50

93290

50

2

647.9016

Manufactured No

110 Each 52.0000 1 1

647 9016

Doubler

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK084

52

92984

19

93386

30

m129311

3

1

647.9110

Manufactured No

110 Each 1,360.000 25 25

647 9110

Thrusert

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK118

245

93294

245

cck122A

1115

92972

260

93294

750

m129311

105

25

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Friday, June 09, 2017 11:43:04 AM

Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

647.9111 Manufactured No

110 Each 356.0000 2 2

647 9111

Thrusert

**

JUN 14 2017

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK118

356

112960

10

92973

107

93340

180

m129311

59

2

647.9312 Manufactured No

110 Each 54.0000 1 1

647 9312

Bracket

**

JUN 14 2017

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK119

5

93826

2

m129311

3

cck122A

49

100486

8

101750

4

136935

8

94748

29

1

647.9313 Manufactured No

110 Each 58.0000 1 1

647 9313

Bracket

**

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

cck086A

58

101469

3

102738

9

108717

4

93700

9

94459

29

m129311

4

1

Friday, June 09, 2017 11:43:04 AM

Shop Packet Print

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		☐ OTHER : _____							

Picklist Print

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Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

647.9314 Manufactured No

110 Each 56.0000 1 1

647 9314

Retainer Bracket

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location Loc Qty Loc Code

cck086A

56

102946

5

105049

6

108833

3

93800

9

94686

29

m129311

4

647.9315 Manufactured No

110 Each 64.0000 1 1

647 9315

Receptacle Bracket

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location Loc Qty Loc Code

CCK070

54

102910

9

106133

6

93779

8

94636

27

m129311

4

CCK094a

10

112394

10

647.9316 Manufactured No

110 Each 16.0000 1 1

647 9316

Crossbar Bracket

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location Loc Qty Loc Code

CCK071

16

115397

10

95527

2

m129311

4

Friday, June 09, 2017 11:43:04 AM

Shop Packet Print

Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

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Page 6

Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

647.9610 Manufactured No

110 Each 60.0000 1 1

647 9610

LH Fwd Wiper Deflector

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK078

60

102825

14

131242

2

93747

10

94562

31

m129311

3

647.9611 Manufactured No

110 Each 54.0000 1 1

647 9611

LH Aft Wiper Deflector

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK078

54

102747

10

107889

10

93706

3

94473

28

m129311

3

647.9612 Manufactured No

110 Each 69.0000 1 1

647 9612

RH Fwd Wiper Deflector

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

cck069

69

101482

4

102745

11

103406

4

112208

10

94471

28

95982

8

m129311

4

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
☐ OTHER : _____									

Picklist Print

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Page 7

Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

647.9613 Manufactured No

110 Each 61.0000 1 1

647 9613

RH Aft Wiper Deflector

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

cck069

61

101531

5

102795

10

103454

4

93728

7

94526

29

98929

3

m129311

3

646.9910 Manufactured No

110 Each 23.0000 2 2

646 9910

Struts

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK014

23

146573

1

150149

4

151904

8

155353

10

NAS6203-22D Purchased No

110 Each 284.0000 4 4

NAS6203-22D

Bolt

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

st552

84

123533

38

m129311

46

ST559a

200

123900

200

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Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition																					
								Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐																		

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Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

NAS6203-26

Purchased

No

110

Each

311.0000

4

4

NAS6203-26

Bolt

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

st552

50

123533

50

ST559a

261

123900

261

AN3-11A

Purchased

No

110

Each

220.0000

2

2

AN3-11A

Bolt

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

100

m136192

100

ST349

120

153855

120

MS21141S-04-06

Purchased

No

110

Each

958.0000

14

14

MS21141S-04-06

Rivet

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK005

524

123694

124

m127904

200

m129311

200

ST295

434

124387

434

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS21141S-04-07

Purchased

No

110

Each

984.0000

12

12

MS21141S-04-07

Rivet

**

DAS

6

9-89

JUN 14 2017

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK005

800

124387

500

m126345

300

ST295

184

124387

184

12

MS27039-1-14

Purchased

No

110

Each

624.0000

6

6

MS27039-1-14

Screw

**

DAS

6

9-89

JUN 14 2017

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

90

120449

90

over006

300

124326

300

ST280

234

124326

234

6

MS27039-1-19

Purchased

No

110

Each

369.0000

4

4

MS27039-1-19

Screw

**

DAS

6

9-89

JUN 14 2017

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

80

m134134

80

ST280

289

m137361

289

4

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____			

Picklist Print

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Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-11

Purchased

No

110

Each

99.0000

6

6

DAS

6

9-89

JUN 14 2017

DAS

28

9-89

MS27039-1-11

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

99

m137544

99

MS27039-1-17

Purchased

No

110

Each

144.0000

2

2

DAS

6

9-89

JUN 14 2017

DAS

28

9-89

MS27039-1-17

Screw (601.1954)

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

144

m127831

144

MS27039-1-21

Purchased

No

110

Each

135.0000

4

4

DAS

6

89

JUN 14 2017

DAS

28

9-89

MS27039-1-21

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

135

m127904

135

MS27039-08-19

Purchased

No

110

Each

290.0000

6

6

DAS

6

9-89

JUN 14 2017

DAS

28

9-89

MS27039-08-19

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

30

m135948

26

m137178

4

ST277

260

m137361

60

m137464

200

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

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Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-11

Purchased

No

110

Each

272.0000

2

2

MS27039-08-11

SCREW

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

272

m135864

22

m137412

250

2

MS27039-08-13

Purchased

No

110

Each

275.0000

2

2

MS27039-08-13

Screw

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

275

153849

275

2

MS27039-1-18

Purchased

No

110

Each

1,610.000

34

34

MS27039-1-18

Screw

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

237

123522

39

124326

198

over006

1200

124326

1200

ST280

173

124326

173

34

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

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Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-15

Purchased

No

110

Each

71.0000

10

10

MS27039-1-15

Screw

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

65

m127916

1

m136554

64

ST280

6

m136406

6

10

MS27039-1-13

Purchased

No

110

Each

528.0000

6

6

MS27039-1-13

Screw

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

10

124326

10

over006

300

124326

300

ST280

218

125654

218

6

NAS1149F0332P

Purchased

No

110

Each

3,494.000

8

8

NAS1149F0332P

Washer

**

DAS
6
9-89

JUN 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

275

m133709

275

ST260a

2000

m137710

2000

ST262

1219

m137412

1219

8

Friday, June 09, 2017 11:43:05 AM

Shop Packet Print

Page 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition																					
								Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐																				
OTHER : _____																									

Picklist Print

Friday, June 09, 2017 11:43:05 AM

Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149C0332R

Purchased

No

110

Each

3,684.000

118

118

NAS1149C0332R

WASHER

**

JUN 14 2017

DAS 28 6-89

Location

Loc Qty

Loc Code

FP001

1924

m137597

1924

GA

514

m133284

22

m136444

492

ST266

1246

m137381

1246

118

NAS1149FN832P

Purchased

No

110

Each

1,767.000

30

30

NAS1149FN832P

Washer

**

JUN 14 2017

DAS 28 6-89

Location

Loc Qty

Loc Code

GA

358

M135058

208

M136182

40

M136866

110

ST263

1409

M137412

1409

30

MS21042L08

Purchased

No

110

Each

939.0000

13

13

MS21042L08

Nut

**

JUN 14 2017

DAS 28 6-89

Location

Loc Qty

Loc Code

GA

100

m135274

6

m135978

94

ST303

839

m137391

365

m137464

224

m137736

250

13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Friday, June 09, 2017 11:43:05 AM

Page 14

Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042-3 MS21042L3 Purchased No

110 Each 0.0000 46 46

MS21042-3

**

137495

JUN 14 2017

Nut MS21140S-04-04 Purchased No

110 Each 1,324.000 12 12

MS21140S-04-04

**

Rivet

Location

Loc Qty

Loc Code

CCK005

480

124387

480

ST296

844

123694

89

124387

555

m126266

200

647.9310 Manufactured No

110 Each 53.0000 1 1

647 9310

**

LH Bracket

Location

Loc Qty

Loc Code

CCK085

53

104503

9

112282

10

93736

10

94541

20

m129311

4

JUN 14 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Friday, June 09, 2017 11:43:05 AM

Page 15

Work Order ID: 162722

162722

Parent Item: 647.8905

647 8905

Parent Item Name: AW139 Cable Cutter System, Removable Provisions - Long

Start Date: 6/19/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

647.9317 Manufactured No

110 Each 37.0000 1 1

647 9317

RH Bracket

**

DAS
6
9-89

JUN 11 2017
DAS
28
9-89

Location

Loc Qty

Loc Code

CCK071

37

105043

2

106164

3

93795

1

94680

19

98984

8

m129311

4

DAS
27
9-89

MS27039-08-24

Purchased No

110 Each 152.0000 5 5

MS27039-08-24

Screw (MS27039-0824)

**

DAS
6
9-89

JUN 14 2017
DAS
28
9-89

Location

Loc Qty

Loc Code

GA

115

124326

115

ST277

37

124326

37

DAS
27
9-89

Friday, June 09, 2017 11:43:05 AM

Shop Packet Print

Page 15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

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NOTES:

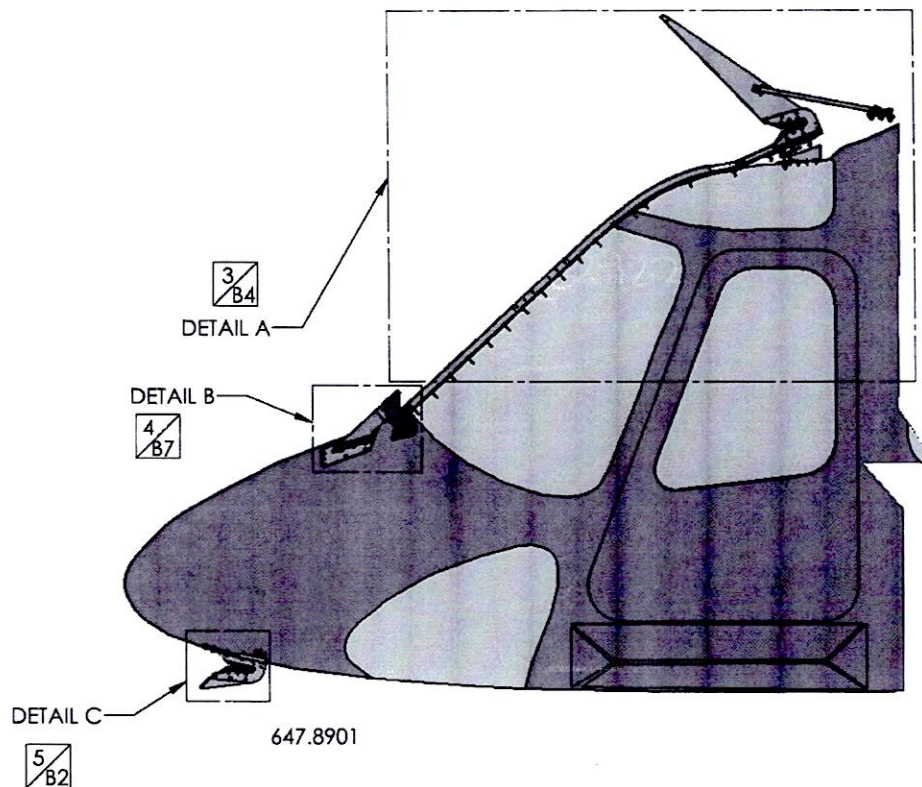
1. AFTER INSTALLATION, APPLY F/N 57 A/R TO FILL GAPS AND FILLET EDGES.
2. APPLY F/N 58 TO FAYING SURFACES.

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 162422
JUN 09 2017

5	5			5	5	42	601.3124	SCREW	MS27039-0824	
1	1			1	1	41	647.9317	RH BRACKET		
1	1			1	1	40	647.9310	LH BRACKET		
12	12	12	12	12	12	59	601.3166	RIVET	MS211405-04-04	
				1	1	58	601.2045	RTV	LOCTITE 598	△
				1	1	57	600.1012	SEALANT	PR-1425 CLASS 8	△
46	46	34	30	82	82	36	601.2943	LOCKNUT	MS21042-3	
13	13		8	13	13	55	601.1541	LOCKNUT	MS21042L08	
30	30		20	30	30	54	601.2764	WASHER	NAS1149FN832P	
118	118	76	126	190	190	53	601.1032	WASHER	NAS1149C0332R	
		16	16	16	16	52	601.1869	WASHER	NAS1149CN832R	
8	8		8	8	8	51	601.1607	WASHER	NAS1149F0332P	
6	6		6	6	6	50	601.3190	SCREW	MS27039-1-13	
		16	16	16	16	49	601.3180	SCREW	MS27039-0804	
		8		8	8	48	601.3069	SCREW	MS27039-1-09	
10	10		10	10	10	47	601.3012	SCREW	MS27039-1-15	
34	34	8	34	34	34	46	601.2910	SCREW	MS27039-1-18	
2	2		2	2	2	45	601.2988	SCREW	MS27039-0813	
2	2		2	2	2	44	601.2893	SCREW	MS27039-0811	
6	6		6	6	6	43	601.2765	SCREW	MS27039-0819	
4	4		4	4	4	42	601.1956	SCREW	MS27039-1-21	
2	2		2	4	4	41	601.1954	SCREW	MS27039-1-17	
		10		10	10	40	601.1952	SCREW	MS27039-1-20	
6	6	4	6	10	10	39	601.1949	SCREW	MS27039-1-11	
4	4		4	4	4	38	601.1948	SCREW	MS27039-1-19	
6	6	12	18	18	18	37	601.1622	SCREW	MS27039-1-14	
.8906	.8905	.8904	.8903	.8902	.8901	FINO	PART #	DESCRIPTION	MATL	SPEC.

REV. 8										REV. 8	
DESCRIPTION										DATE	
LAST PROTOTYPE RELEASE- P1										M/C	
INITIAL RELEASE										9-29-10	
INCORPORATED ECHS 02996, 03091, 03217, 03279										11-28-11	
A										P. BRAVO	
12	12			12	12	12	36	601.3188	RIVET	MS211415-04-07	
14	14			14	14	14	35	601.3187	RIVET	MS211415-04-06	
		16	16	16	16	34	601.3189	INSERT	NAS1836-08-09		
2	2			2	2	2	33	601.2826	BOLT	AN3-11A	
4	4			4	4	32	601.1866	BOLT	NAS6203-26		
4	4			4	4	31	601.1850	BOLT	NAS6203-22D		
2	2			2	2	30	646.9910	STRUT			
1	1			1	1	29	647.9613	RH WIPER DEFLECTOR			
1	1			1	1	28	647.9612	RH FWD WIPER DEFLECTOR			
1	1			1	1	27	647.9611	LH WIPER DEFLECTOR			
1	1			1	1	26	647.9610	LH FWD WIPER DEFLECTOR			
1	1			1	1	25	647.9316	CROSSBAR BRACKET			
1	1			1	1	24	647.9315	RECEPTACLE BRACKET			
1	1			1	1	23	647.9314	RETAINER BRACKET			
1	1			1	1	22	647.9313	BRACKET			
1	1			1	1	21	647.9312	BRACKET			
		1		REF	REF	20	647.9311	SUPPORT BRACKET			
				2	2	19	647.9114	THRUSERT			
		12	12	12	12	18	647.9113	THRUSERT			
		12	12	12	12	17	647.9112	THRUSERT			
2	2	10	2	12	12	16	647.9111	THRUSERT			
25	25	20	26	26	26	15	647.9110	THRUSERT			
		1	1	1	1	14	647.9016	DOUBLER		△	
				REF	REF	13	647.9015	DOUBLER			
2	2			2	2	2	12	647.9014	STRUT BRACKET		
1	1			1	1	1	11	647.9013	FWD CLIP		△
1	1			1	1	1	10	647.9012	FWD CLIP		
				1	REF	REF	9	647.9011	DOUBLER		
				1	REF	REF	8	647.9010	DOUBLER		
1	1			1	1	7	647.9801	MOUNTING TEE ASSY			
2	2			2	2	6	647.9501	QUICK RELEASE PIN ASSY			
1	1			1	1	5	647.9401	DEFLECTOR ASSY			
						4	647.9203	LOWER CUTTER LONG ASSY			
						3	647.9202	LOWER CUTTER ASSY			
1	1			1	1	2	647.9201	UPPER CUTTER ASSY			
		3	3	3	3	1	647.9001	DOUBLER ASSY			
							647.8906	AW139 CABLE CUTTERS REMOVABLE PROVISIONS KIT			
							647.8905	AW139 CABLE CUTTERS REMOVABLE PROVISIONS KIT LONG			
							647.8904	AW139 CABLE CUTTERS FIXED PROVISIONS KIT			
							647.8903	AW139 UPPER CABLE CUTTERS KIT			
							647.8902	AW139 CABLE CUTTERS KIT LONG			
							647.8901	AW139 CABLE CUTTERS KIT			
.8906	.8905	.8904	.8903	.8902	.8901	FINO	PART #	DESCRIPTION	MATL	SPEC.	
QTY								PARTS LIST			
NEXT ASSY (S)								ORIGINAL DATE 06-17-10			
								DRAWN BY J. ROMANO			
								CHECKED BY P. BRAVO			
								DESIGNED APPROVAL P. BRAVO			
								CONTRACT NO.			
								UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
								TOLERANCES ARE:			
								3 PLACES DECIMALS ±.015			
								2 PLACES DECIMALS ±.005			
								ANGLES ±.5°			
								APICAL INDUSTRIES			
								2608 TEMPLE HEIGHTS DR.			
								OCEANSIDE, CA. 92056-3512 (760)724-5300			
								AW139 CABLE CUTTERS KIT			
								REV. 8			
								CAGE CODE 07426			
								DWG. NO. 647.8900			
								SCALE NONE			
								SHEET 1 OF 9			

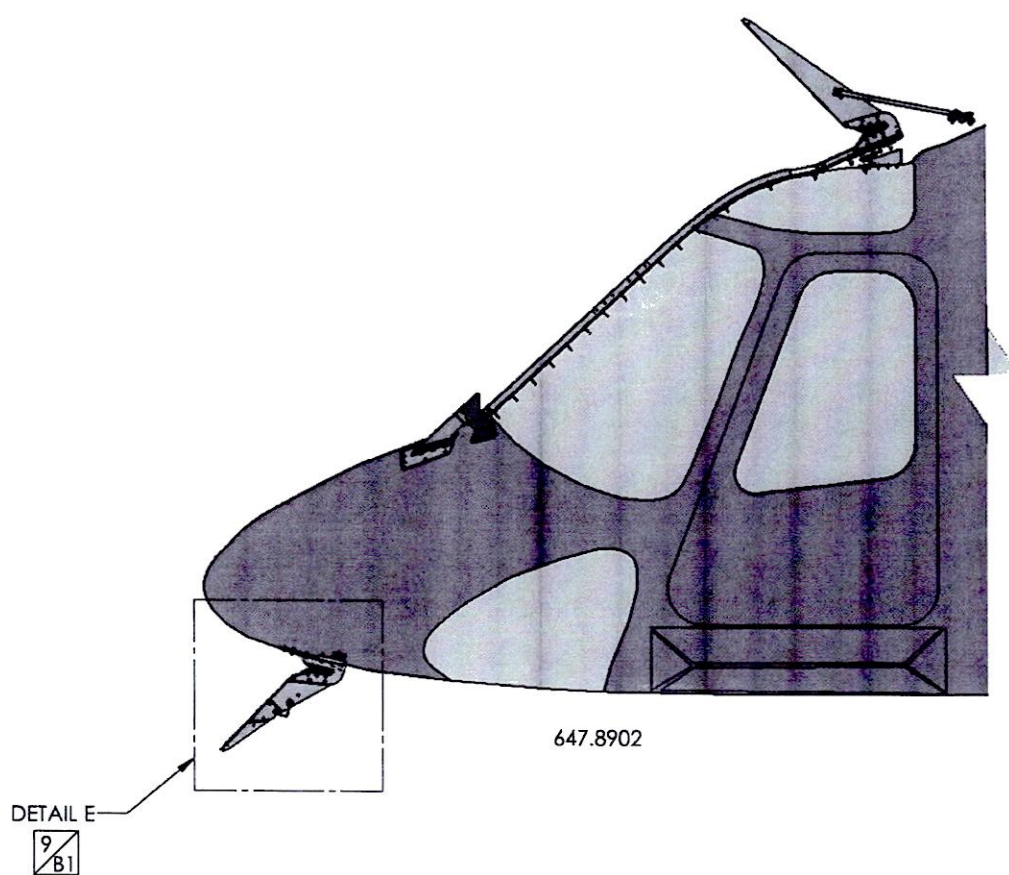
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ORIGINAL DATE 06-17-10		APICAL INDUSTRIES	
DRAWN BY R. YOSANO	CHECKED BY P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO 06-20-10		AW139 CABLE CUTTERS KIT	
CONTRACT NO.		SIZE B	REV. A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.010 ANGLES ±.5°		DWG. NO. 647.8900	
		SCALE NONE	SHEET 2 OF 9

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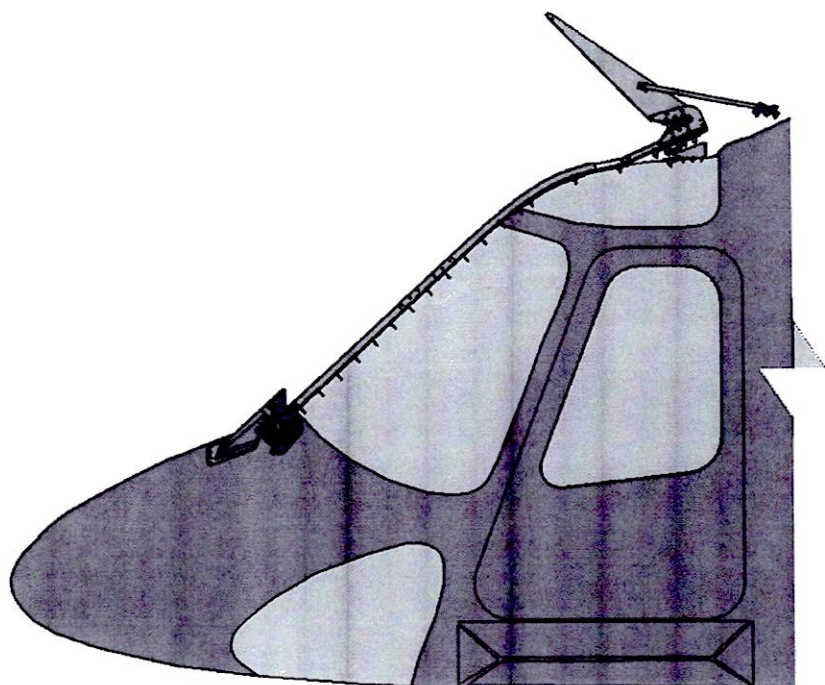
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE 06-17-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR.	
CHECKED BY R. BRAVO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL R. BRAVO		AW139 CABLE CUTTERS KIT	
CONTRACT NO.		SEE CAGE CODE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		07M16	DWG. NO. 647.8900
SCALE NONE		REV. A	SHEET 3 OF 9

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

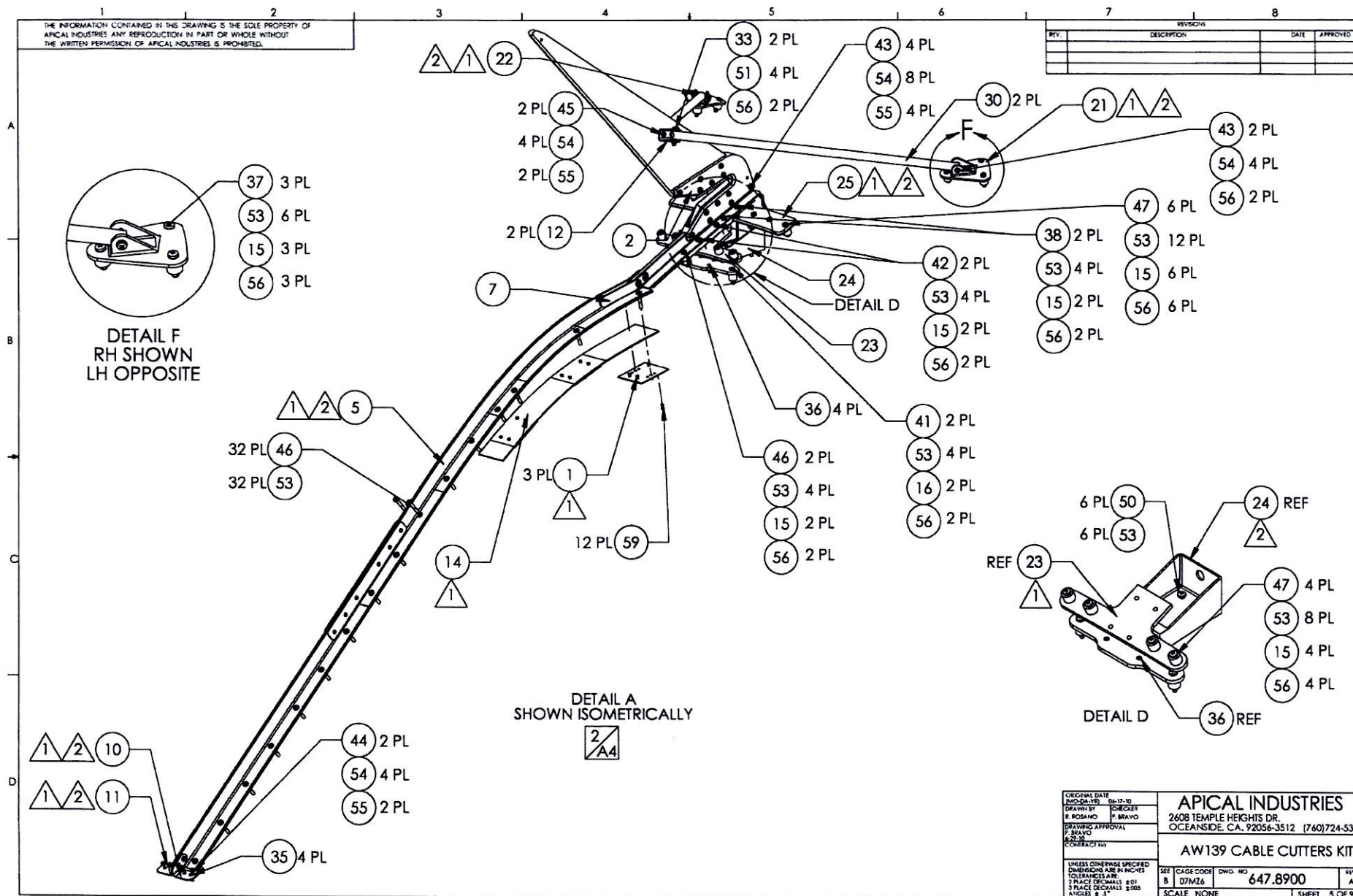


647.8903

ORIGINAL DATE JMD-DA-171 06-17-10		APICAL INDUSTRIES	
DRAWN BY P. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAVO		AW139 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO 6/20/10		SEE CAGE CODE DWO. NO. 647.8900	
CONTRACT NO.		SCALE NONE	REV. A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.01 ANGLES ±.5°		SHEET 4 OF 9	

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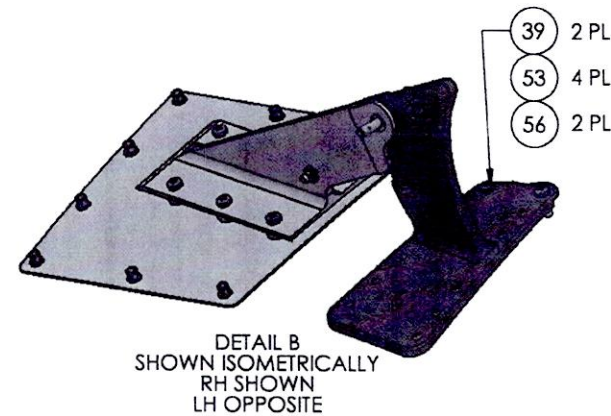
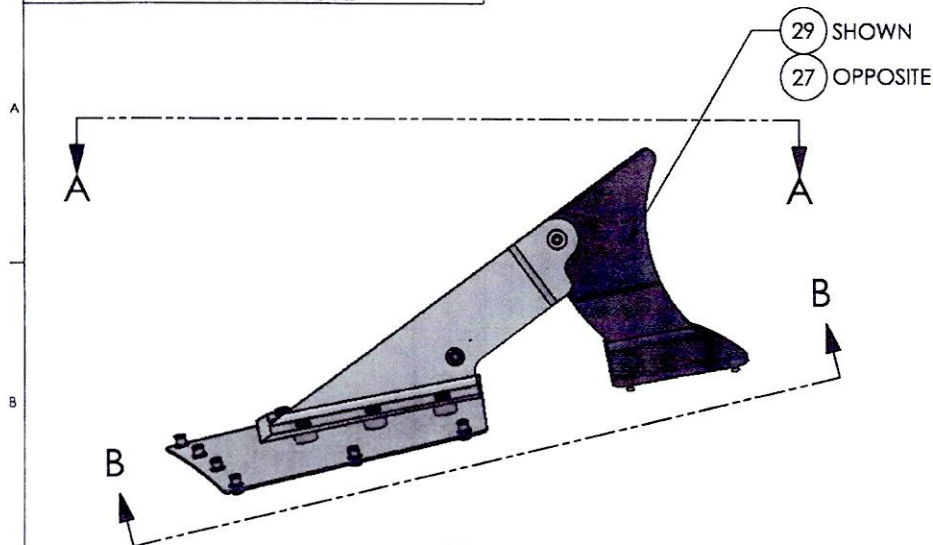
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



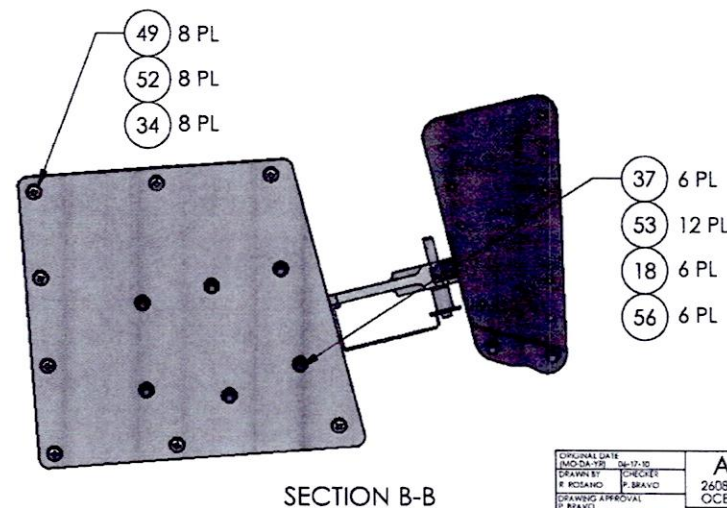
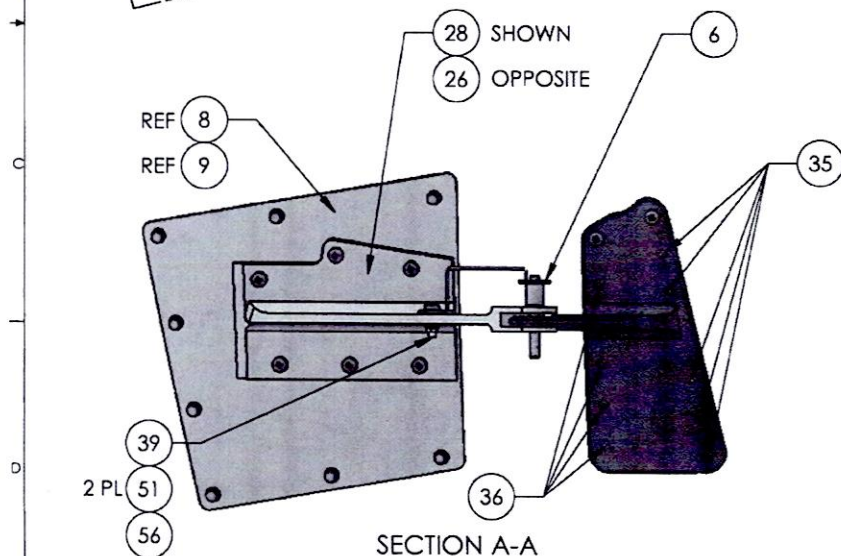
ORIGINAL DATE 06-17-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAVO		AW139 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO		SEE CAGE CODE B 07M26	DWG. NO. 647.8900
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.1°		SCALE NONE	REV A
		SHEET 5 OF 9	

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



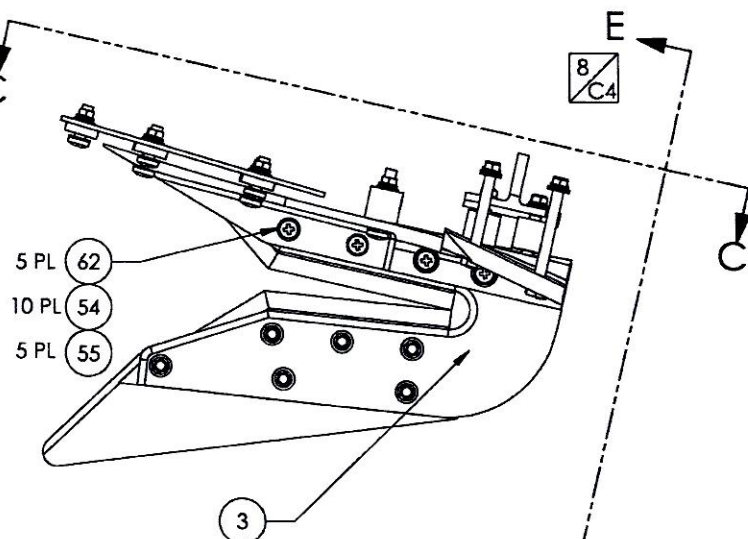
2
B3



ORIGINAL DATE 08-17-90		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR.	
CHECKED BY P. BRAVO		OCEANSIDE, CA. 92056-3512	
APPROVED BY P. BRAVO		(760) 724-5300	
DATE 07-90		AW139 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		SIZE B	QTY 647.8900
TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE	REV A
		SHEET 6 OF 9	

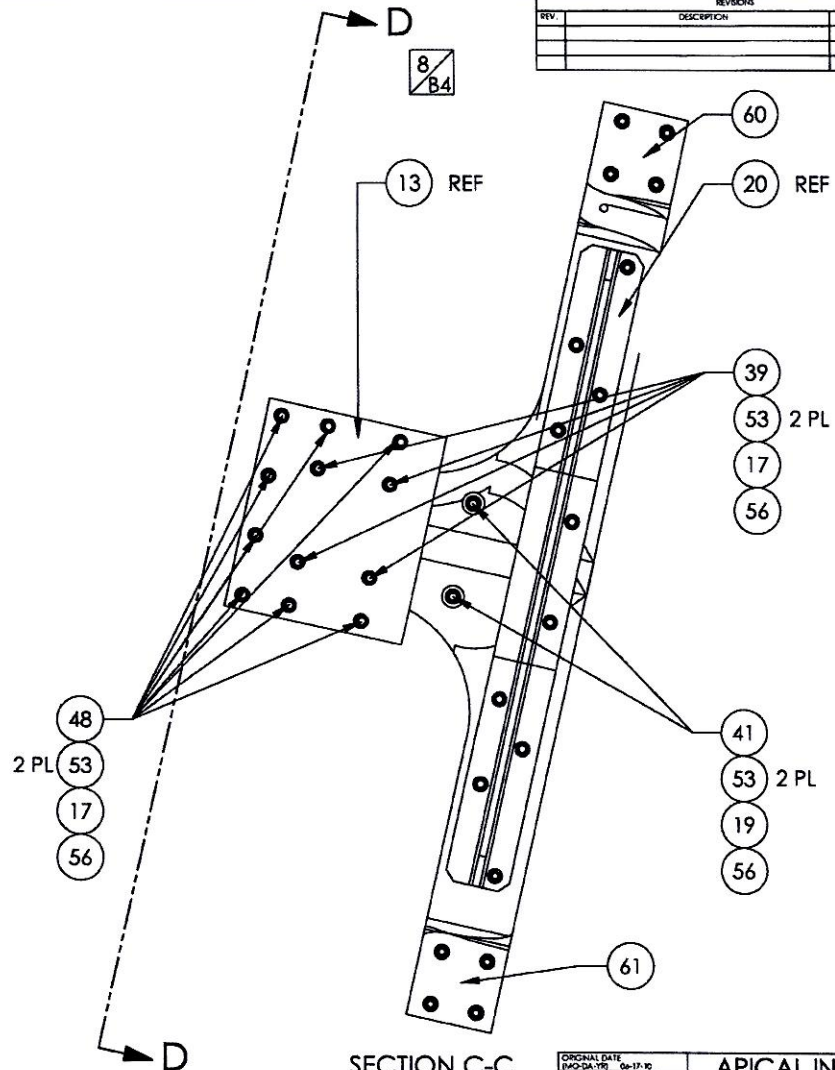
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



DETAIL C

2
B4

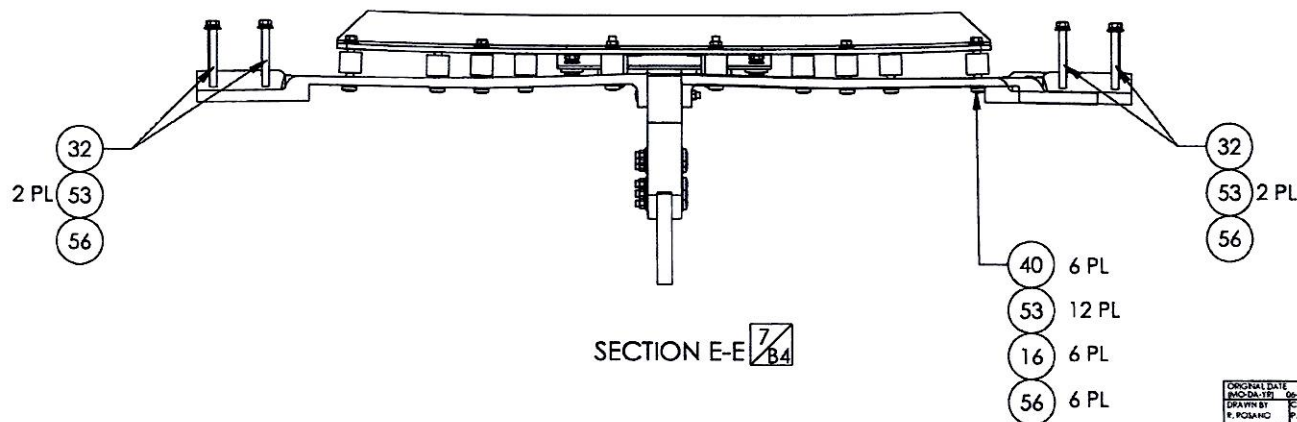
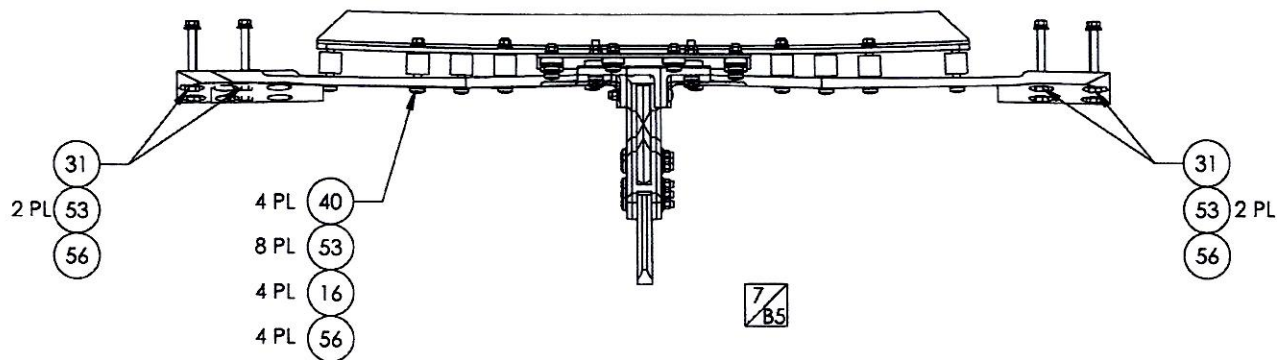


SECTION C-C

ORIGINAL DATE 08-17-10		APICAL INDUSTRIES	
DRAWN BY P. BRAVO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAVO		AW139 CABLE CUTTERS KIT	
CONTRACT NO.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
		TOLERANCES ARE: 2 PLACES DECIMALS ±.01 3 PLACES DECIMALS ±.005 ANGLES ±.5°	
SHEET B	CAGE CODE 07M426	DWG. NO. 647.8900	REV. A
SCALE NONE			SHEET 7 OF 9

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

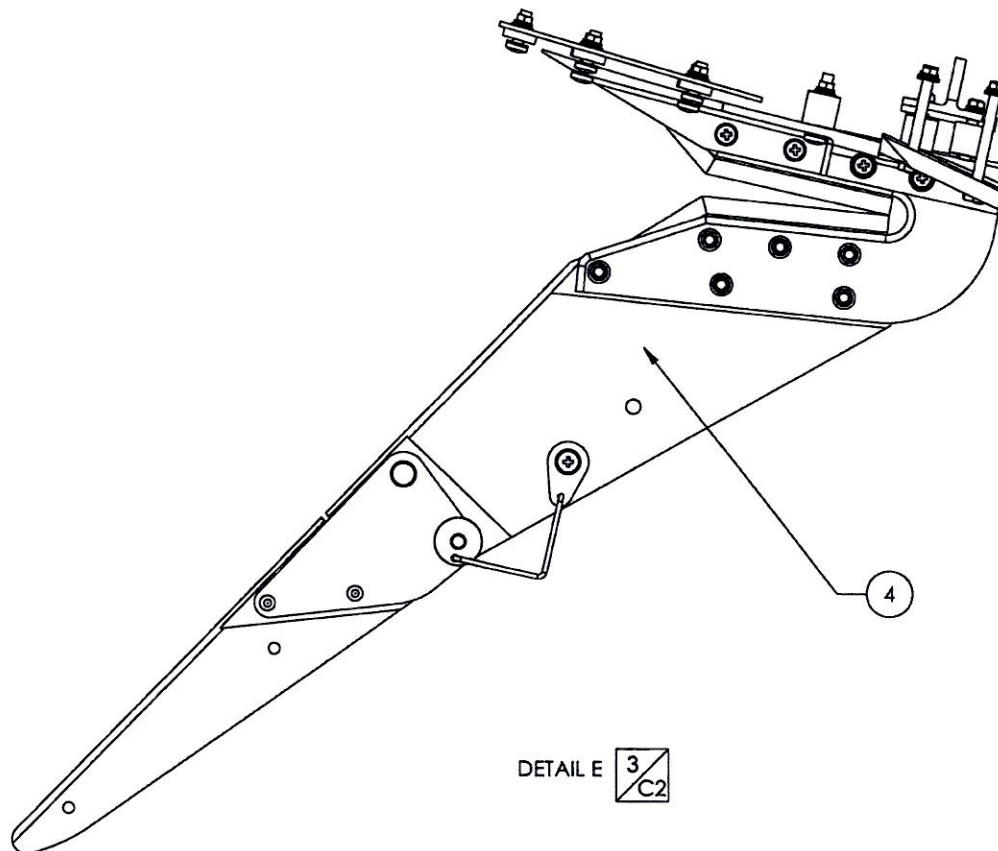


ORIGINAL DATE 11/02/04-151		DWG. NO. 647.8900	
DRAWN BY P. ROMANO	CHECKER P. BRAVO	SCALE NONE	REV.
DRAWING APPROVAL P. BRAVO		SHEET 8 OF 9	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 7 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.3°		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300 AW139 CABLE CUTTERS KIT	

1 2 3 4 5 6 7 8

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



DETAIL E 3 / C2

ORIGINAL DATE 1/10/2017 08:17:30		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY F. ROSANO	CHECKED BY P. BRAVO		
DRAWING APPROVAL P. BRAVO			
CONTRACT NO. 			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SEE CAGE CODE B 07MZA	DWS. NO. 647.8900
SCALE NONE		SHEET 9 OF 9	

Work Order ID 162722

162722

Page 1

Friday, June 09, 2017 11:43:05 AM

Item ID: 647.8905 Accept *N900040100* Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: AW139 Cable Cutter System, Removable Provisions - Long

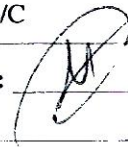
Start Date: 6/19/2017 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 6/21/2017 Req'd Qty: 1.00 *1*

Customer:

Reference: SCHEDULED/C

Approvals: Process Plan:  Date: JUN 09 2017 Tooling: Date: QC: Date: SPC (Y/N): Date:

Run Start *NR1* Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.8900	A	JUN 14 2017							
100	Document Control	0.00							JUN 13 2017
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.8905								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.03							
Quality Control									

CB

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SR02379LA

This Certificate issued to

Apical Industries, Inc, dba Dart Aerospace
3030 Enterprise Court, Suite A
Vista, California 92081

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 29 of the Federal Aviation Regulations.

Original Product Type Certificate Number: R00002RD

Make: Agusta S.p.A.

Model: AB139, AW139

Description of Type Design Change: Installation of Apical Industries, Inc. Cable Cutters Kit in accordance with FAA approved Apical Industries, Inc. Master Document List MD139-3, Revision B, dated October 17, 2011, or later FAA approved revision.

Limitations and Conditions: This approval requires the inspections and overhaul schedules to be performed as mandated by Apical Industries, Inc.'s Instructions for Continued Airworthiness, ICA139-31, Revision N/C, dated July 15, 2010, or later FAA accepted revision.

This installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of this permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 7, 2010

Date reissued: November 17, 2011; August 18, 2014

Date of issuance: November 08, 2011

Date amended:



By direction of the Administrator

Haifa Haj-EM
(Signature)

Haifa Haj-EM
Supervisor, Technical and Administrative
Support Staff
Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.